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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584,469	06/22/2006	Philip Head	608-481	2431
23117 NIXON & VA	7590 04/30/200 NDERHYE, PC	EXAMINER		
901 NORTH G	LEBE ROAD, 11TH F	THOMPSON, KENNETH L		
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			3672	
			MAIL DATE	DELIVERY MODE
			04/30/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/584,469	HEAD ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kenneth Thompson	3672			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on 22 Ju 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 11-20 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 11-14 is/are allowed. 6) ☐ Claim(s) 15-17 is/are rejected. 7) ☐ Claim(s) 18-20 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examiner 10) ☐ The drawing(s) filed on 22 June 2006 is/are: a) Applicant may not request that any objection to the or	vn from consideration. relection requirement. r. □ accepted or b)⊠ objected to				
Replacement drawing sheet(s) including the correcti 11) The oath or declaration is objected to by the Ex-		` ,			
Priority under 35 U.S.C. § 119	animor. Note the attached chief	7.00.017 01 101111 1 1 0 102.			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the casing cutters, the steering joint and tubing having an electrical conductor embedded therein must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Claims 15-17 are rejected under 35 U.S.C. 102(b) as being anticiapted by Arutunoff, U.S. 2,609,182.

Arutunoff discloses a remotely controlled drilling assembly (col. 2, lines 15-25) suspended on a cable (157, 33) surrounding a wire (138, 48).

Arutunoff discloses expansion means (105) or reamer blades and other expansion means (61) or chamber for increased oil volume (col. 4, lines 13-24).

Arutunoff discloses an electric motor (52) for rotating drill bit and an electrical motor (122) for rotating the drill bit and reamer (col. 8, lines 20-24; lines 49-52) or hole opener.

Arutunoff discloses axially moveable (col. 5, lines 64-67) cable traction means (94,95,97,98,100,101) or antirotation collar axially moveable along the wire portion of the cable and inherently capable of supporting an expandable liner pipe thereon.

Allowable Subject Matter

Claims 11-14 are allowed.

Claims 18-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Simmons, U.S. 1,880,218 dislcoses a percussive drill (B), liner (D), expander (C), deepening the well (p. 3, lines 1-8), a locking head (F) or traction means, expanding the lower end (p. 3, lines 83-102) of the casing and a similar cable (G).

Grable, U.S. 3,216,512 dislose a similar suspended drill for casing installation.

Muench, U.S. 3,280,923 discloses a similar suspended steerable drill.

Wardley et al. U.S. 6,412 disclose similar wireline drill.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Thompson whose telephone number is 571 272-7037. The examiner can normally be reached on 6:00 am - 2:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 3672

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

28 April 2009

/Kenneth Thompson/ Primary Examiner, Art Unit 3672